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Publications:

Block-Based Gradient Descent for Local Backlight Dimming and Flicker Reduction

Burini, N., Mantel, C., Nadernejad, E., Korhonen, J., Forchhammer, S. & Pedersen, J. M. 2014 In : *Journal of Display Technology*. 10, 1, p. 71-79

Publication: Research - peer-review › Journal article – Annual report year: 2013

Modeling the leakage of LCD displays with local backlight for quality assessment

Mantel, C., Korhonen, J., Pedersen, J. M., Bech, S., Nadernejad, E., Burini, N. & Forchhammer, S. 2014 In : *Proceedings of SPIE, the International Society for Optical Engineering*. 9014, 6 p., 90140M

Publication: Research - peer-review › Conference article – Annual report year: 2014

Optimal Backlight Modulation With Crosstalk Control in Stereoscopic Display

Jiao, L., Shu, X., Cheng, Y., Wu, X. & Burini, N. 2014 In : *Journal of Display Technology*. 11, 2, p. 157-164

Publication: Research - peer-review › Journal article – Annual report year: 2015

Adaptive deblocking and deringing of H.264/AVC video sequences

Nadernejad, E., Burini, N. & Forchhammer, S. 2013 *2013 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*. IEEE, p. 2508-2512 (I E E E International Conference on Acoustics, Speech and Signal Processing. Proceedings).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Adaptive local backlight dimming algorithm based on local histogram and image characteristics

Nadernejad, E., Burini, N., Korhonen, J., Forchhammer, S. & Mantel, C. 2013 In : *Proceedings of SPIE, the International Society for Optical Engineering*. 8652, p. 86520V 13 p.

Publication: Research - peer-review › Conference article – Annual report year: 2013

Controlling Power Consumption for Displays With Backlight Dimming

Mantel, C., Burini, N., Nadernejad, E., Korhonen, J., Forchhammer, S. & Pedersen, J. M. 2013 In : *Journal of Display Technology*. 9, 12, p. 933-941

Publication: Research - peer-review › Journal article – Annual report year: 2013

Enhancing Perceived Quality of Compressed Images and Video with Anisotropic Diffusion and Fuzzy Filtering

Nadernejad, E., Korhonen, J., Forchhammer, S. & Burini, N. 2013 In : *Signal Processing: Image Communication*. 28, 3, p. 222-240

Publication: Research - peer-review › Journal article – Annual report year: 2013

Flicker Reduction in LED-LCDs with Local Backlight

Nadernejad, E., Mantel, C., Burini, N. & Forchhammer, S. 2013 *2013 IEEE 15th International Workshop on Multimedia Signal Processing (MMSP)*. IEEE, p. 312-316

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Modeling Power-Constrained Optimal Backlight Dimming for Color Displays

Burini, N., Nadernejad, E., Korhonen, J., Forchhammer, S. & Wu, X. 2013 In : *Journal of Display Technology*. 9, 8, p. 656-665

Publication: Research - peer-review › Journal article – Annual report year: 2013

Modeling the Color Image and Video Quality on Liquid Crystal Displays with Backlight Dimming

Korhonen, J., Mantel, C., Burini, N. & Forchhammer, S. 2013 *Proceedings of International Conference on Visual Communications and Image Processing (VCIP'13)*. IEEE, 6 p.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

OPTimal backlight scanning for 3D crosstalk reduction in LCD TV

Burini, N., Shu, X., Jiao, L., Forchhammer, S. & Wu, X. 2013 *2013 IEEE International Conference on Multimedia and Expo (ICME)*. IEEE, 6 p.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Processing Decoded Video for Backlight Dimming: Video Quality Enhancement on LCD with Dynamic Local Backlight

Burini, N., Forchhammer, S. & Korhonen, J. 2013 Kgs. Lyngby: Technical University of Denmark. 185 p.

Publication: Research › Ph.D. thesis – Annual report year: 2013

Quality assessment of images displayed on LCD screen with local backlight dimming

Mantel, C., Burini, N., Korhonen, J., Nadernejad, E. & Forchhammer, S. 2013 *2013 Fifth International Workshop on Quality of Multimedia Experience (QoMEX)*. IEEE, p. 48-49

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Searching for the preferred backlight intensity in liquid crystal displays with local backlight dimming

Korhonen, J., Mantel, C., Burini, N. & Forchhammer, S. 2013 *2013 Fifth International Workshop on Quality of Multimedia Experience (QoMEX)*. IEEE, p. 118-123

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

How to evaluate objective video quality metrics reliably

Korhonen, J., Burini, N., You, J. & Nadernejad, E. 2012 *2012 Fourth International Workshop on Quality of Multimedia Experience (QoMEX)*. IEEE, p. 57-62

Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Image Dependent Energy-Constrained Local Backlight Dimming

Burini, N., Nadernejad, E., Korhonen, J., Forchhammer, S. & Wu, X. 2012 *Proceedings of ICIP 2012*. IEEE, p. 2797-2800 (International Conference on Image Processing. Proceedings).

Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Speedup of optimization-based approach to local backlight dimming of HDR displays

Burini, N., Nadernejad, E., Korhonen, J., Forchhammer, S. & Wu, X. 2012 In : *Proceedings of SPIE, the International Society for Optical Engineering*. 8436, p. 84360B

Publication: Research - peer-review › Journal article – Annual report year: 2012

Modeling LCD Displays with Local Backlight Dimming for Image Quality Assessment

Korhonen, J., Burini, N., Forchhammer, S. & Pedersen, J. M. 2011 In : *Proceedings of SPIE--the international society for optical engineering*. 7866, 1, p. 786607-9

Publication: Research - peer-review › Conference article – Annual report year: 2011

Maximizing entropy of image models for 2-D constrained coding

Forchhammer, S., Danielli, M., Burini, N., Zamarin, M. & Ukhanova, A. 2010 *Proceedings WITMSE*. 6 p.

Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Projects:

Kvalitets optimering af High Dynamic Range billeder og display

Forchhammer, S., Korhonen, J., Burini, N., Nadernejad, E. & Melgaard Pedersen, J.
01/02/2012 → 30/04/2013

Project

Video Coding Processing

Burini, N., Forchhammer, S., Larsen, K. J., Callet, P. L. & Kuhlmann, L.
01/03/2010 → 23/09/2013

Project: PhD

